BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK:- ***Improvements of Roads from Amruthahalli Hanmanthappa House to Muninagappa House in ward no 07 Byataryanapura***

							ESTIMATED COST		10.00 lakhs
Sl No	Description of work	Unit	No	L	B	D	QTY	Rate in Rs	Amount in Rs
1	KSRRB 300-47 Scarifying Kankar /gravel/ metal crust upto 150mm thick with power roller and scarifier , disposal of stuff including cost of labour charges HOM of machinaries MORTH Specification No. 305.4.3 (P-146, Item No. 19.53 SR 2015-16)								
	Nagrajappa House Road	**Sqm**	1	30.00	3.00		90.00		
	cross roads		1	18.00	2.00		36.00		
	main Road		1	58.00	3.00		174.00		
	Cross ~~Roads~~		1	50.00	3.40		170.00		
							470.00	**25.92**	**12182.00**
	Basic Rate Rs.	24.00							
	Add 8% A.W Rs.	1.92							
	Total Rate Rs.	25.92							
2	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3.								
	(P.No.141, I.No.19.1 of PW,P&IWTD S.R2015-16								
	Nagrajappa House Road	**cmtr**	1	30.00	0.60	0.60	10.80		
	cross roads		1	10.00	0.60	0.60	3.60		
	main Road		1	50.00	0.60	0.60	18.00		
							32.40	83.16	**2694.00**
	Basic Rate Rs.	77.00							
	Add 8% A.W Rs.	6.16							
	Total Rate Rs.	**83.16**							
3	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (148, I.No. 19.64) 2015-16								
	Nagrajappa House Road	**Sqm**	1	30.00	3.00		90.00		
	cross roads		1	18.00	2.00		36.00		
	main Road		1	58.00	3.00		174.00		
			1	50.00	3.40		170.00		
							470.00	**4.86**	**2284.00**
	Basic Rate	**4.50**							
	Area Weightage @ 8%	**0.36**							
	Total	**4.86**							
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.3) SR-2015-16								
	Nagrajappa House Road	cum	1	30.00	3.00	0.10	9.00		
	cross roads		1	18.00	2.00	0.10	3.60		
	main Road		1	58.00	3.00	0.10	17.40		
	Cross Road ?		1	22.00	3.40	0.10	7.48		
	" ?		1	10.00	0.60	0.10	0.60		
							38.08	5070.6	193088.00
	Basic Rate	4695							
	Area Weightage @ 8%	375.6							
	Total	5070.6							

5	KSRB5 25 providing and constructing non load bearing with cement concreate solid blocks with compresive strenth not less than 3.5 newtown per sqmm with cement mortor 1:4 with block of size 40X20 X20cms (lXbXh) conforming to is:2185/1965 in superstructure including the cost of materials labour charges , scaffolding curing complete as specification (P.No.25 I.No.5.27 of PW,P&IWTD S.R 2015-16								
	Nagrajappa House Road	**Sqm**	2	30.00	0.80		48.00		
	main Road		2	10.00	0.60		12.00		
			2	50.00	0.60		60.00		
							120.00	**1018.44**	**122213.00**
	Basic Rate Rs.	943.00							
	Add 8% A.W Rs.	75.44							
	Total Rate Rs.	1018.44							
6	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) (P. 18, I.No. 4.48 SR-2015-16								
	Nagrajappa House Road	cum	1	30.00	3.00	0.10	9.00		
	cross roads		1	18.00	2.00	0.10	3.60		
	main Road		1	58.00	3.00	0.10	17.40		
			1	22.00	3.40	0.10	7.48		
	Covering Slab		1	30.00	0.80	0.10	2.40		
			1	10.00	0.80	0.10	0.80		
			1	50.00	0.80	0.10	4.00		
			1	120.00	1.20	0.10	14.40		
							59.08	6332.04	374097.00
	Basic Rate	5863							
	Area Weightage @ 8%	469.04							
	Total	6332.04							
7	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P. 174 I. No. 22.7) SR-2015-16								
	Nagrajappa House Road	**Sqm**	1	30.00	3.00		90.00		
	cross roads		1	18.00	2.00		36.00		
	main Road		1	58.00	3.00		174.00		
			1	50.00	3.40		170.00		
							470.00	97.20	**45684.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
8	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement(P. 172 I. No. 22.8.1) SR-2015-16								
	Roads	Rmtr	15	2.50			37.50		
							37.50	124.20	**4658.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							

	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2015-16								
	C.DS	Cum	2.00	8.00	1.80	0.90	25.92		
							25.92	192.24	4983.00
	Basic Rate	178.00							
	Area Weightage @ 8%	14.24							
	Total	192.24							
11	KSRB 4-1.3: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.3) SR-2015-16								
	C.DS	Cum	2.00	8.00	1.80	0.15	4.32		
							4.32	5070.60	21905.00
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	5070.60							
12	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P. 23, I.No. 5.6) SR-2015-16								
	C.DS	Cum	2X2	8.00	0.60	0.60	11.52		
							11.52	4135.32	**47639.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
13	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P 15, I.No 4.28) SR-2015-16								
	C.DS	Sqm	2.00	8.00	0.60		9.60		
	Side		4.00	6.00	0.23		5.52		
			4.00	1.80	0.23		1.66		
							16.78	244.08	4095.00
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	244.08							
14	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) (P. 18, I.No. 4.48 SR 2015-.16								
	C.DS	Cum	2.00	8.00	1.80	0.30	8.64		
							8.64	6332.04	54709.00
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	6332.04							

15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 17, I.No. 4.46.2) SR-2015-16								
	23.32x60Kg/Cum						1339.00 1.34	69805.80	93470.00
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	69805.80							
16	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.112.I.No. 15.3) SR-2015-16								
		Sqm	14.00	8.00		0.60	67.20 67.20	99.36	6677.00
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	99.36							
17	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)							Cum	
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne /		Qty vide Item No.2 & 10				**58.32**	72.71	**4240.00**
	Basic Tate Lead Charges upto 2.00	62.20							
	2x1.28x2 =	5.12							
	Loading and unloading	67.32							
	Average Weight of earth 1.28 tone/kg	5.39							
		72.71							**5382.00**
18	Miscelleneous & Rounding off							**Toatl Rs.**	**1000000.00**

(Rupees:- Ten Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2015-16
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

H.V.Y
ಕಾ.ಅ. (ಪ್ರ.ವಿ) 8/12/15

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

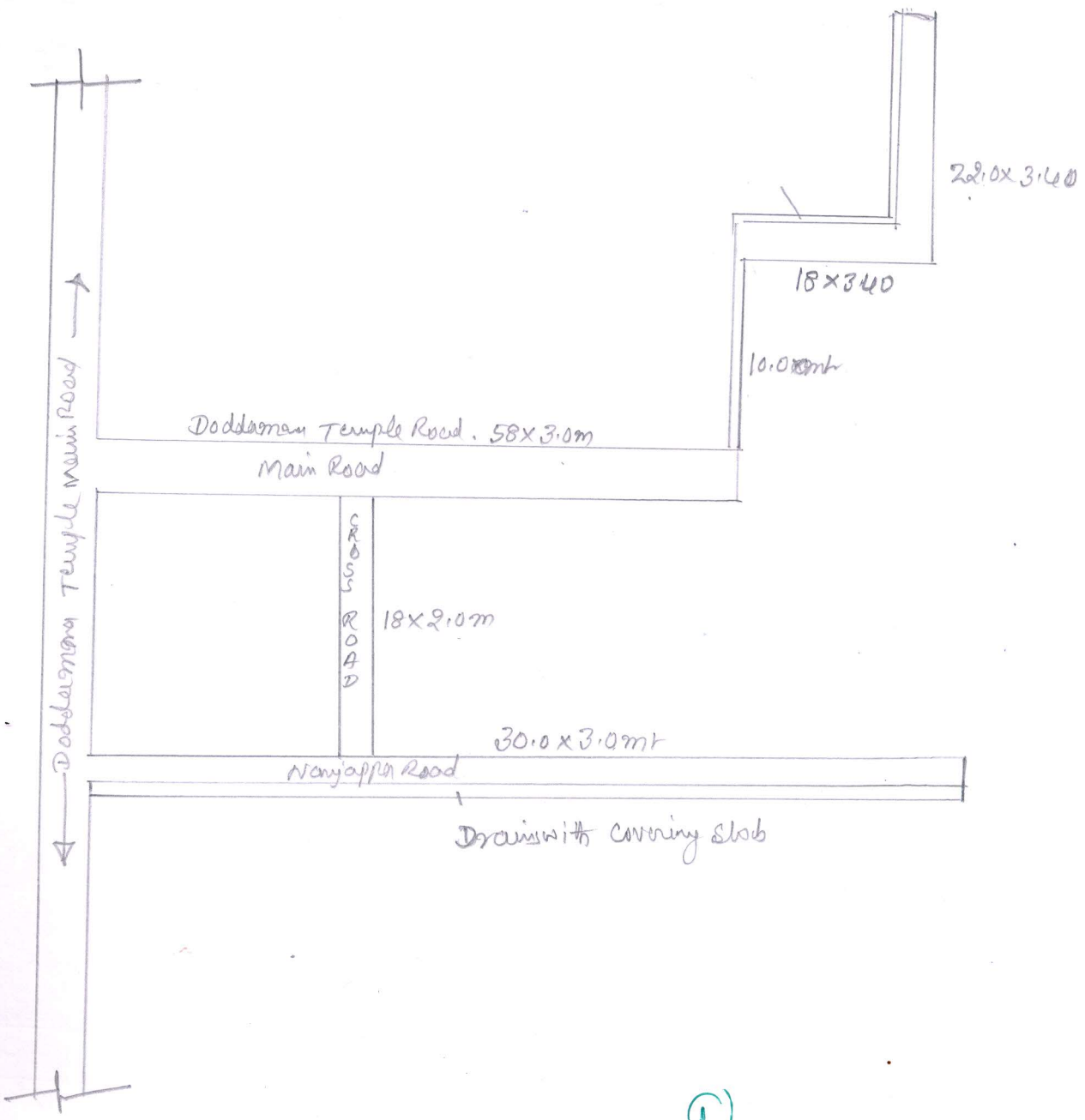
Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVE APPROVAL
Accorded For Rs. Ten lakhs only
Head of A/c P-1771
Div. Ref. No. 176 Date. 14.12.15
AE
H.V.Y EE(BTP) 14/12

TECHNICAL SANCTION
Accorded For Rs. Ten lakhs only
Head of A/c P-1771
Div. Ref. No. 185 Date. 14.12.15
AE
H.V.Y EE(BTP) 15/12

E OF WORKS: Improvements of Roads from Amruthalalli Halumanthappa house to Muninagappa House in Ward NO 7 Byatarayanapura.

Est Cost Rs 10.00 Lakhs



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.